NOTE: The document identifier and heading have been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

INCH-POUND

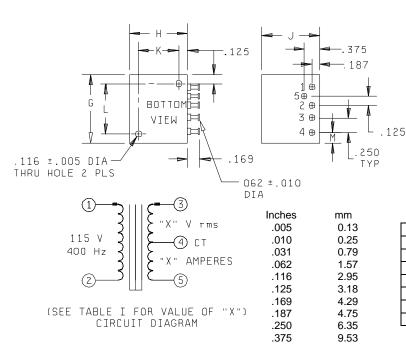
MIL-PRF-27/340D 22 January 1992 SUPERSEDING MIL-T-27/340C 17 January 1986

PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS, POWER, 15 VOLTAMPERES, 400 HZ, TF5S03ZZ

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-T-27.



Ltr	Dimensions		
	Inches	mm	
G	1.43 ±.015	36.3 ±0.38	
Н	1.24 ±.015	31.5 ±0.38	
J	1.27 ±.015	32.3 ±0.38	
K	.99 ±.015	25.1 ±0.38	
L	1.18 ±.015	30.0 ±0.38	
М	.250 ±.031	6.35 ±0.79	

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information.
- 3. Marking shall be on the top and sides of case.
- 4. Dimensional tolerance shall be ±.031 unless otherwise specified.
- 5. Dimensions G and H to be measured at top of transformer.

FIGURE 1. <u>Dimensions and configuration</u>.

(D) denotes changes

REQUIREMENTS: (When numbers in parentheses, i.e., (1-2) are used, they indicate the winding and the extreme terminals of the winding.) Electrical ratings: Primary voltage (1-2): 115 volts rms, 400 ±20 hertz. Secondary voltage and current (3-5): See table I. Voltampere: 15 voltamperes. Working voltage (1-2): 535 volts peak. Design and construction: Dimensions and configuration: See figure 1. Duty cycle: Continuous. Case: Encapsulated. Material: Diallyl phthalate. Terminals: Turret type. Height: .169 inch. Weight: .28 pound, maximum. Operating temperature range: -55°C to +130°C. Altitude: 70,000 feet. Terminal strength: MIL-STD-202, method 211, test condition A, 2 pounds. Dielectric withstanding voltage (each winding): At sea level: 1500 volts rms. At reduced barometric pressure: 1.25 times the peak working voltage specified. Electrical characteristics:

Rated load: With 115 volts rms and 400 Hz in (1-2), and rated current in secondary, the voltage across (3-5) shall be as specified in table I.

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DC resistance:

(1-2): 14 ohms ±25 percent.

(3-5): See table I.

Temperature rise: 45° C with 115 volts rms, 400 hertz across (1-2) at an ambient temperature of 85° C, full load terminals (3-5).

Regulation: Voltage (no load) - Voltage (rated load)

Voltage (rated load) x 100 (Shall not exceed 10 percent.)

Polarity: Additive, with terminals 2 and 3 connected.

Marking location: See figure 1.

Part or Identifying Number (PIN): M27/340- (dash number from table I).

TABLE I. Electrical ratings.

TABLE 1. Etecer roat rottings.				
Dash number M27/340	Secondary voltage (3-5) (V rms) ±5% (CT)	Secondary current (3-5) (amperes)	Secondary DCR (3-5) (ohms) ±25%	
-01	5.0	3.0	.052	
-02	6.3	2.38	.088	
-03	8.0	1.8	. 135	
-04	10.0	1.5	.27	
-05	12.6	1.18	.32	
-06	14.0	1.07	.35	
-07	 16.0	. 94	.54	
-08	 18.0	. 832	.74	
-09	20.0	.750	1.4	

TABLE I. <u>Electrical ratings</u> - Continued.

	Secondary	Secondary	Secondary	
 Dash	voltage (3-5)	current (3-5)	DCR (3-5)	
vasn number	(3-5) (V rms) ±5%	(3-3) (amperes)	(ohms) ±25%	
M27/340	(CT)	l (diliperes)	(Offilis) ±23%	
-10	22.0	. 680	. 92	
-11 !	25.0	.600	1.3	
-12 I	28.0	. 535	1.83	
-13	31.0	. 485	1.62	
-14	35.0	. 428	2.28	
 -15	! ! 39.0	.384	2.54	
-16	 43.0	. 348	2.85	
 -17	48.0	.312	4.05	
-18	55.0	.262	7.2	
-19	63.0	.238	6.51	
-20	70.0	.214	9.4	
 -21	80.0	. 198	13.4	
22	90.0	. 166	15.9	
-23	100.0	. 150	 16.8	
-24	110.0	.136	22.1	
 -25 	123.0	.122	 30.7 	
-26	138.0	.108	36.0	
 -27	157.0	.095	53.0	
 -28 !	 175.0	.085	56.0	
-29	200.0	.071	65.0	
i -30 	220.0	.068	91.5	

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TABLE I. Electrical ratings - Continued.

Dash number M27/340	Secondary voltage (3-5) (V rms) ±5% (CT)	Secondary current (3-5) (amperes)	Secondary DCR (3-5) (ohms) ±25%
-31	26.0	.577	1.35
-32	115.0	 .130	23.10

QUALITY ASSURANCE PROVISIONS:

Extent of qualification:

- $ig(exttt{D} ig)$ Qualification testing and approval to M27/338-28 and M27/343-32 shall be sufficient to grant qualification approval to MIL-T-27/338 through MIL-T-27/343 inclusive, all parts.
- $\left(\mathtt{D}\right)$ Qualification testing and approval to M27/340-32 shall be sufficient to grant qualification approval to M27/340-01 through M27/340-32.

CONCLUDING MATERIAL

Custodians:

Army - ER Navy - EC

Air Force - 85

Review activities:

Army - AR Navy - OS

Air Force - 11, 17, 99

DLA - ES

User activities:

Army - ME Navy - AS, MC

Air Force - 19

Preparing activity: Army - ER

Agent: DLA - ES

(Project 5950-0775)